

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: To Be Assigned

Examiner: To Be Assigned

In re PATENT APPLICATION of

Applicant(s) : Der-Zheng LIU et al.

Appln. No. : To Be Assigned

Filed : August 28, 2003

For : METHOD AND APPARATUS FOR I/Q  
IMBALANCE ESTIMATION

Atty. Dkt. : TOP 312

**INFORMATION  
DISCLOSURE  
STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is an information disclosure statement (IDS) submitted in compliance with the timing requirements of 37 C.F.R. §1.97(b)(1).

Attached are copies of four English-language publications. The publications are listed on the attached Form PTO-1449.

Since this Information Disclosure Statement is being filed with the application, no certification or fee is required, and the requirements of 37 C.F.R. §§1.97 and 1.98 are deemed to be fully met as to the document submitted. Consideration of the submitted document respectfully is requested.

Respectfully submitted,



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August 28, 2003  
Date

SMR/tl

**FEE ENCLOSED: \$**  
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<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>		Atty Docket <b>TOP 312</b>		Application No. <b>To Be Assigned</b>			
		Applicant <b>Der-Zheng LIU et al.</b>					
		Filing Date <b>August 28, 2003</b>		Group Unit <b>To Be Assigned</b>			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub-Class	Translation
	AG						
	AH						
	AI						
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AK	"Frequency Domain Equalization of IQ Imbalance in OFDM Receivers" TUAM 3.4 P28-29 Andreas Schuchert and Martin Buchholz 2001 IEEE					
	AL	"Analysis of IQ Imbalance on Initial Frequency Offset Estimation in Direct Down-Conversion Receivers" P158-161, Vincent K.-P. Ma and Tommi Ylamurto 2001 IEEE					
	AM	"A Novel IQ Imbalance Compensation Scheme for The Reception of OFDM Signals" P313-318 Andreas Schuchert and Ralph Hasholzner 2001 IEEE					
	AN	"Effects of Tuner IQ Imbalance on Multicarrier-Modulation Systems" 2000 IEEE Martin Buchholz, Andreas Schuchert and Ralph Hasholzner 5 un-numbered pages					
Examiner					Date Considered		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							